

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P520626

Luminaire Tested: **4WSLA-75-L950-UPL8-UNV-U**

Issue Date: 5/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P520626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4WSLA-75-L950-UPL8-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

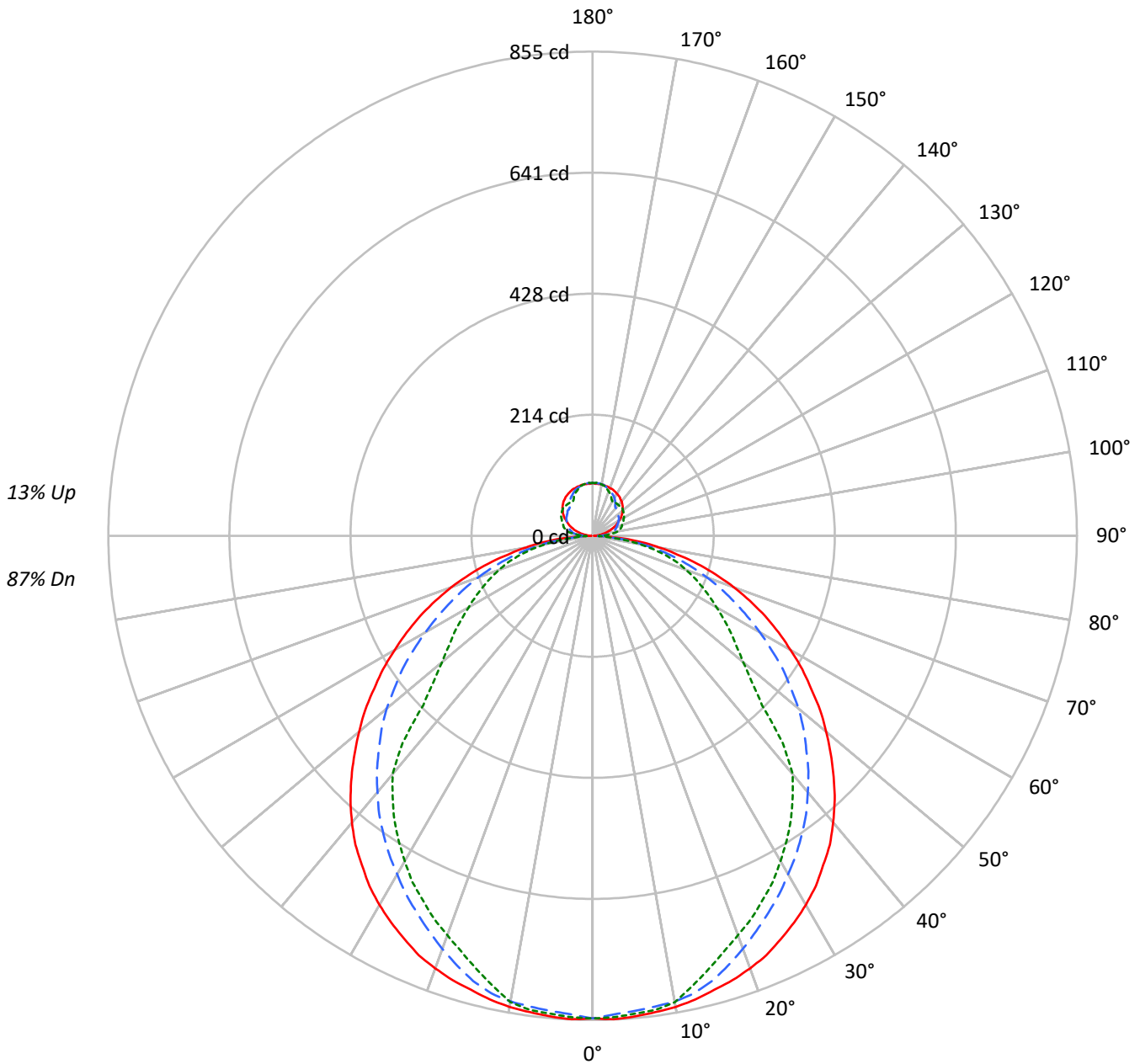
Lumens per Lamp: N/A
Luminaire Lumens: 2652.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 23.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4587	4587	4587
5°	4604	4551	4577
10°	4617	4563	4570
15°	4625	4536	4413
20°	4656	4445	4298
25°	4667	4361	4216
30°	4678	4290	4122
35°	4664	4229	4012
40°	4643	4152	3859
45°	4582	4060	3220
50°	4507	3973	2905
55°	4418	3842	2795
60°	4342	3669	2719
65°	4279	3514	2716
70°	4167	3377	2758
75°	3978	3213	2778
80°	3725	2889	2585
85°	3409	2044	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.0
10°-20°	229.4	8.6
20°-30°	342.7	12.9
30°-40°	409.1	15.4
40°-50°	409.1	15.4
50°-60°	354.1	13.4
60°-70°	271.8	10.2
70°-80°	166.5	6.3
80°-90°	46.9	1.8
90°-100°	26.5	1.0
100°-110°	42.0	1.6
110°-120°	49.2	1.9
120°-130°	53.1	2.0
130°-140°	52.3	2.0
140°-150°	46.3	1.7
150°-160°	38.1	1.4
160°-170°	25.5	1.0
170°-180°	8.9	0.3
0°-30°	652.7	24.6
0°-40°	1061.8	40.0
0°-60°	1825.0	68.8
0°-90°	2310.2	87.1
90°-120°	117.7	4.4
90°-150°	269.4	10.2
90°-180°	342.0	12.9
0°-180°	2652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	852	850	842	848	847	81
15°	830	829	814	799	792	235
25°	786	776	734	715	710	363
35°	710	692	644	620	611	445
45°	602	585	533	486	423	464
55°	471	460	410	327	298	422
65°	336	324	276	222	213	332
75°	191	182	154	134	134	202
85°	55	45	33	28	28	58
90°	2	9	14	17	18	4
95°	10	21	28	29	29	10
105°	28	29	42	49	52	30
115°	47	39	49	56	60	46
125°	62	50	56	65	67	56
135°	75	67	62	69	72	58
145°	83	80	70	69	71	52
155°	88	87	82	78	77	41
165°	91	92	90	90	90	26
175°	92	93	93	94	94	9
180°	93	93	93	93	93	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.2	852.2	852.2	852.2	852.2
2.5°	854.6	852.2	846.0	852.2	850.9
5°	852.2	849.7	842.3	848.5	847.2
7.5°	848.5	846.0	838.7	846.0	844.8
10°	844.8	842.3	835.0	839.9	836.2
12.5°	838.7	836.2	827.6	821.5	814.1
15°	830.1	828.9	814.1	799.4	792.1
17.5°	822.7	819.0	795.7	778.6	770.0
20°	812.9	806.8	776.1	756.5	750.4
22.5°	801.9	792.1	755.3	736.9	732.0
25°	785.9	776.1	734.4	714.8	709.9
27.5°	770.0	757.7	713.6	694.0	689.1
30°	752.8	735.7	690.3	671.9	663.3
32.5°	733.2	716.1	668.2	647.4	637.6
35°	709.9	691.5	643.7	620.4	610.6
37.5°	687.9	668.2	619.2	593.4	580.0
40°	660.9	641.3	591.0	562.8	549.3
42.5°	632.7	614.3	564.0	529.7	496.6
45°	602.0	584.9	533.4	485.5	423.0
47.5°	570.1	555.4	505.2	440.2	380.1
50°	538.3	523.6	474.5	397.3	347.0
52.5°	506.4	494.1	440.2	361.7	320.0
55°	470.8	459.8	409.5	327.4	297.9
57.5°	438.9	427.9	374.0	299.2	274.6
60°	403.4	393.6	340.9	271.0	252.6
62.5°	370.3	359.3	307.8	246.4	233.0
65°	336.0	323.7	275.9	221.9	213.3
67.5°	300.4	288.1	245.2	199.9	195.0
70°	264.8	255.0	214.6	177.8	175.3
72.5°	228.1	217.0	183.9	156.9	156.9
75°	191.3	181.5	154.5	133.6	133.6
77.5°	153.3	148.4	123.8	109.1	110.4
80°	120.2	114.0	93.2	83.4	83.4
82.5°	88.3	80.9	62.5	55.2	57.6
85°	55.2	45.4	33.1	28.2	28.2
87.5°	17.2	13.5	9.8	11.0	11.0
90°	2.5	8.6	13.5	17.2	18.4
92.5°	6.1	15.9	19.6	23.3	24.5
95°	9.8	20.8	28.2	29.4	29.4
97.5°	13.5	23.3	34.3	39.2	39.2
100°	18.4	24.5	36.8	44.1	45.4
102.5°	23.3	27.0	39.2	46.6	49.0
105°	28.2	29.4	41.7	49.0	51.5



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CATALOG NUMBER: 4WSLA-75-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	41.7	36.8	46.6	55.2	57.6
115°	46.6	39.2	49.0	56.4	60.1
117.5°	50.3	42.9	51.5	58.9	61.3
120°	53.9	45.4	52.7	61.3	63.8
122.5°	58.9	47.8	55.2	62.5	66.2
125°	62.5	50.3	56.4	65.0	67.4
127.5°	66.2	55.2	57.6	66.2	68.7
130°	68.7	60.1	58.9	67.4	69.9
132.5°	72.3	63.8	60.1	68.7	71.1
135°	74.8	67.4	62.5	68.7	72.3
137.5°	77.2	71.1	62.5	68.7	71.1
140°	79.7	74.8	63.8	68.7	71.1
142.5°	80.9	77.2	65.0	68.7	71.1
145°	83.4	79.7	69.9	68.7	71.1
147.5°	84.6	82.1	73.6	68.7	71.1
150°	85.8	84.6	77.2	69.9	69.9
152.5°	87.1	85.8	79.7	74.8	72.3
155°	88.3	87.1	82.1	78.5	77.2
157.5°	89.5	89.5	84.6	82.1	80.9
160°	89.5	90.7	87.1	84.6	83.4
162.5°	90.7	92.0	88.3	87.1	85.8
165°	90.7	92.0	89.5	89.5	89.5
167.5°	92.0	93.2	92.0	90.7	90.7
170°	92.0	93.2	92.0	92.0	92.0
172.5°	92.0	93.2	93.2	93.2	93.2
175°	92.0	93.2	93.2	94.4	94.4
177.5°	92.0	93.2	93.2	93.2	93.2
180°	93.2	93.2	93.2	93.2	93.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	33.1	31.9	42.9	51.5	53.9
110°	36.8	34.3	45.4	52.7	55.2



(END OF REPORT)